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**(19) AUSTRALIAN PATENT OFFICE**

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**GAME MACHINE**

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**L.V. Hickey**

**(54) Inventor(s)**  
**Leslie Vincent Hickey**

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COMMONWEALTH OF AUSTRALIAPATENTS ACT, 1952-1973APPLICATION FOR A PATENT

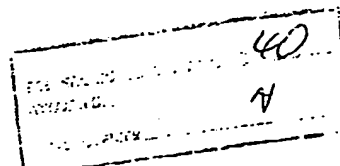
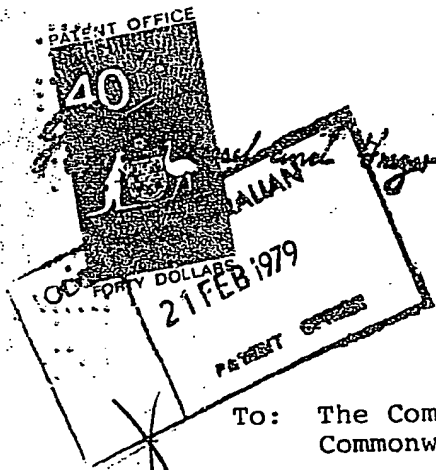
44475/79

I/~~WE~~, LESLIE VINCENT HICKEYof 101 Murphys Avenue,  
Keiraville 2500, N.S.W.APPLICATION ACCEPTED AND AMENDMENTS  
ALLOWED 30/7/82hereby apply for the grant of a Patent for an invention  
entitled "GAME DEVICE"

which is described in the accompanying complete specification.

My/~~OUR~~ address for service is Messrs GRIFFITH, HASSEL & FRAZER,  
Patent Attorneys, of 323 Castlereagh Street, SYDNEY, New South  
Wales 2000, Commonwealth of Australia.

DATED this 20th day of February, 1979.

LESLIE VINCENT HICKEY  
By his Patent Attorneys:of GRIFFITH, HASSEL & FRAZER  
Fellows, Institute of Patent  
Attorneys of Australia.To: The Commissioner of Patents  
Commonwealth of Australia

DECLARATION FORM FOR INDIVIDUAL APPLICANTS, AUSTRALIA

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Regulations 11(1)

COMMONWEALTH OF AUSTRALIA

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## DECLARATION IN SUPPORT OF AN APPLICATION FOR A PATENT

In support of the Application made by me for a patent for an invention entitled:

"JACKPOT BONUS"

I, LESLIE VINCENT HICKEY, of  
(Full name) (Full address)  
101 MURPHYS AVENUE KEIRAVILLE 2500

do solemnly and sincerely declare as follows:

1. I am the Applicant for the patent.
2. I am in possession of the invention, the subject of the application.
3. I am the actual inventor of the invention.

Declared at Hollangong this fifteenth  
(City and Country)  
day of February 1978

L. Hickey  
(Signature)

To:

The Commissioner of Patents  
CANBERRA.

NOTE: Initial all Deletions and Alterations.

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(12) AUSTRALIAN PATENT ABRIDGMENT

(19) AU

(11) AU-B-44 475/79

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(54) GAME MACHINE

(75) LESLIE VINCENT HICKEY

(21) 44 475/79

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(51)<sup>2</sup> G07F 17/34

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(56) 39 332/78

G07F 17/34

(57) Claim 1. A device adapted for use in conjunction with two or more game machines, the device comprising a display, and means for driving the display for successively indicating in a random or regular sequence respective "win" values, the driving means being adapted to stop the sequence in response to a "win" signal from a game machine to indicate one of the "win" values, and means for recommencing the sequence in response to a "reset" signal, wherein the driving means includes a plurality of electrical switches connected to the display and arranged to be actuated sequentially, each switch, when actuated, causing the display to indicate a respective one of the win values.

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PATENTS ACT 1952-69

# COMPLETE SPECIFICATION

(ORIGINAL)

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FOR OFFICE USE :

Application Number :  
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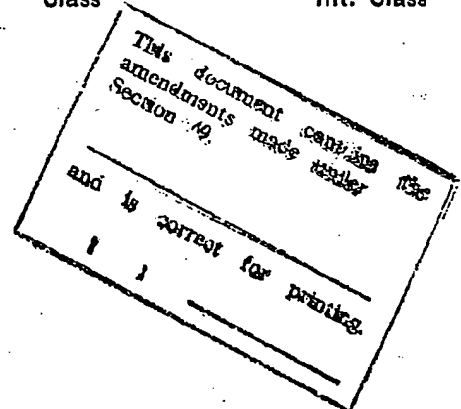
Complete Specification Lodged :  
Accepted :  
Published :

Priority :

Related Art :

Class

Int. Class



## TO BE COMPLETED BY APPLICANT

Name of Applicant :  
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Actual Inventor: as above

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323 Castlereagh St.,  
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Complete Specification for the invention entitled: "GAME DEVICE"

The following statement is a full description of this invention, with the best method of performing it known to me/us:-

This invention relates to a device for use in conjunction with two or more game machines such as, for example, machines known as "poker machines".

5 The invention may be broadly defined as a device adapted for use in conjunction with two or more game machines, the device comprising a display, and means for driving the display for successively indicating in a random or regular sequence respective "win" values, the driving means being adapted to stop the sequence in response to a "win" signal  
10 from a game machine to indicate one of the "win" values, and means for recommencing the sequence in response to a "reset" signal, wherein the driving means includes a plurality of electrical switches connected to the display and arranged to be actuated sequentially, each switch, when actuated, causing the display to indicate a respective one of the win values.  
15

The "win" signal may be provided by the closing of the switch when a machine registers a "win". The "reset" signal may be generated manually, for example, by opening of the switch when the machine is operated again.

20 The "win" values indicated by the device may correspond to values of prizes that may be offered to a player or players who win a game or games on the machine(s). A prize value indicated by the device when a player has won a game may be offered as a bonus additional to any prize the player may have won by playing the machine.  
25

The invention will be more fully understood from the following description in conjunction with the accompanying



drawings, in which:

Figure 1 is a schematic illustration showing a display device according to an embodiment of the invention, in conjunction with a number of poker machines and



Figure 2 is a schematic circuit diagram of the display device.

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The display device 10 shown in the drawings by way of example is arranged to be connected to a number of so-called "poker machines", in this case five such machines indicated respectively 11 to 15. The poker machines may be conventional machines modified so as to be electrically connected to the display device through electrical lines 16 to 20 respectively. The display device includes a number of display elements, in this case lamps, which are arranged to light up one at a time in a regular sequence. The number of such elements is not necessarily related to the number of poker machines, but rather corresponds to an arbitrary number of prize values being offered. In this case five lamps are provided, each lamp being associated with a corresponding prize value appropriately marked on a display panel on which the lamps are mounted. It will however be appreciated that any suitable display means capable of displaying different values in a sequence can be used, for example, a single two digit numerical display in which selected prize values are indicated in a programmed sequence.

The device is intended to be used in conjunction with the machines 11 to 15 which normally would be located in a common area in a club or gaming establishment. While the machines 11 to 15 are being played, independently, by several players, the lamps will flash one at a time in a regular sequence at a suitable rate, for example, one lamp each



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half second. As soon as a player wins, that is, a jackpot is registered by the respective machine, the sequence of flashing lights is stopped and the lamp which is alight will indicate the amount of "bonus" prize money to be awarded in addition to the jackpot prize being won. Where a number of machines are being operated simultaneously, the first machine to register a jackpot will stop the sequence and the winner or winners will be eligible for the bonus prize indicated. The lamp indicating the bonus prize will remain lit whilst any machine is registering a jackpot, and the sequence will recommence when the "jackpot" indication is cleared.

Figure 2 is a circuit diagram of the device. In this circuit, five relays A to E corresponding to the number of lamps LA to LE are arranged, in conjunction with timing capacitors C1 to C6 and resistors R1 to R3 to drive the lamps in a regular sequence. The relays A to E have switches SA1 to SE1 respectively connected in series with the lamps LA to LE respectively. The relays are arranged in such manner that only one of the lamps is connected at a time through terminals 21, 22 to a low voltage AC source (not shown). The relays A to E additionally include switches SA2 to SE2 which are in the positions respectively shown at an instant when the switch SA1 is closed and the switches SB1 to SE1 are open. The circuit additionally includes a polarised relay F and non-polarised relays G to J. Each of the relays has switches identified by the symbols S (for switch) a letter corresponding to the letter identifying the relay, and a number, 1, 2 or 3, identifying respective

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switches of each relay. Thus, for example, the switch SF3 is a switch associated with and actuated by relay F.

A number of switches S1 to S5, each associated with the respective machines 11 to 15, are connected electrically in series with a resistor R6 and the relay G between positive and negative DC supply terminals 23 and 24. Each of the normally closed switches S1 to S5 is arranged to open when the respective machine registers a "jackpot". So long as the machines are being operated and no jackpot has been registered, all of the switches S1 to S10 are closed, so that current passes through the relay G, which closes the associated switch SG1 which is in series with the relay G. The relays H and I in conjunction with timing components C8, C9, R4 and R5 are arranged to oscillate, for example, at 2 or 3 pulses per second, and this causes the switch SH2 in series with the relay J to open and close at a pulsed rate. This causes the associated relay SJ1 in circuit with relays A to F to open and close at a corresponding rate. The arrangement is such that the relays A to E connect the respective lamps in turn to provide the flashing sequence.

When a jackpot is registered current no longer flows through the relay G, which causes the associated contacts SG1, SG2 and SJ1 to open. Opening of the last switch stops the sequential operation of the relays A to E so that only one of the lamps is connected. Opening of the relay switch SG2 removes the short circuit across the relay switch SI2 in series with the lamps. This causes a pulsed current to be

- 5 supplied to the particular lamp which is connected, causing that lamp to flash. When all of the switches S1 to S5 are again closed, the sequential operation of the relays A to E recommences.

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**CLAIMS**

CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. A device adapted for use in conjunction with two or more game machines, the device comprising a display, and means for driving the display for successively indicating in  
5 a random or regular sequence respective "win" values, the driving means being adapted to stop the sequence in response to a "win" signal from a game machine to indicate one of the "win" values, and means for recommencing the sequence in response to a "reset" signal, wherein the driving means  
10 includes a plurality of electrical switches connected to the display and arranged to be actuated sequentially, each switch, when actuated, causing the display to indicate a respective one of the win values.

2. A device as claimed in claim 1 wherein the switches  
15 are associated with, and actuated by, respective relays connected in a pulse shift arrangement driven by an oscillator, in which sequential pulses from the oscillator to the relays cause the relays and associated switches to be actuated, in use when at least one game machine is being  
20 used, and wherein the pulses to the relays are stopped when a win signal is received.

3. A device as claimed in claim 2 wherein the display  
is activated by a pulsed signal when a win signal is received, to give a pulsed display.

25 4. A device as claimed in claim 2 or 3 wherein the oscillator comprises a pair of relays having respective



relay switches arranged in circuit therewith to obtain oscillation of the circuit, the time constants for which are determined by at least one resistor and capacitor in the circuit.

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- 5 5. A device as claimed in claim <sup>4</sup>/~~5~~ including first and second further relays, arranged respectively to stop the pulses to the relays associated with the display and to provide a pulsed signal to the display when a win signal is received.
- 10 6. A device as claimed in any preceding claim, in combination with at least ~~one~~<sup>two</sup> game machines <sup>each</sup> having at least one switch electrically connected to the driving means, which switch is activated in response to a player winning a game on the machine to provide a "win" signal, to the driving means.
- 15 7. A device substantially as herein described with reference to the drawings.

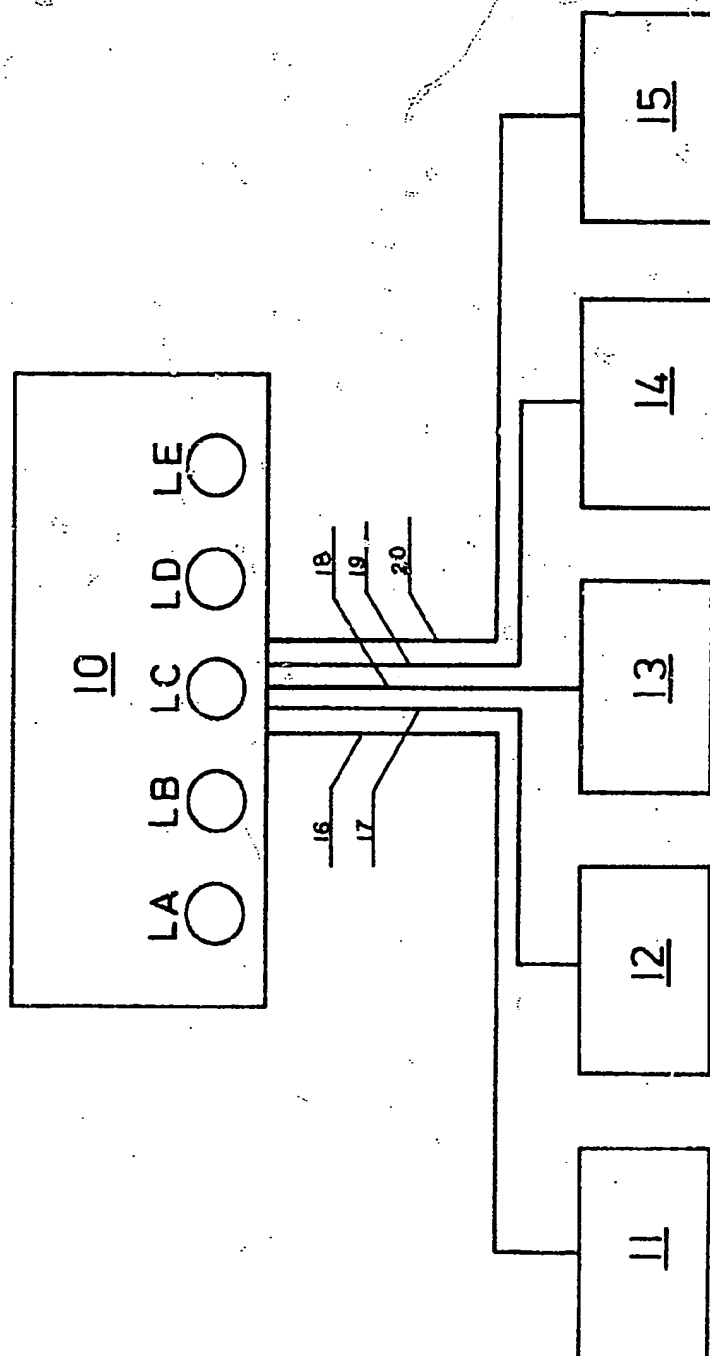
Dated this 20th day of February, 1979.

LESLIE VINCENT HICKEY  
By his Patent Attorneys  
GRIFFITH, HASSEL & FRAZER.



**DRAWINGS**

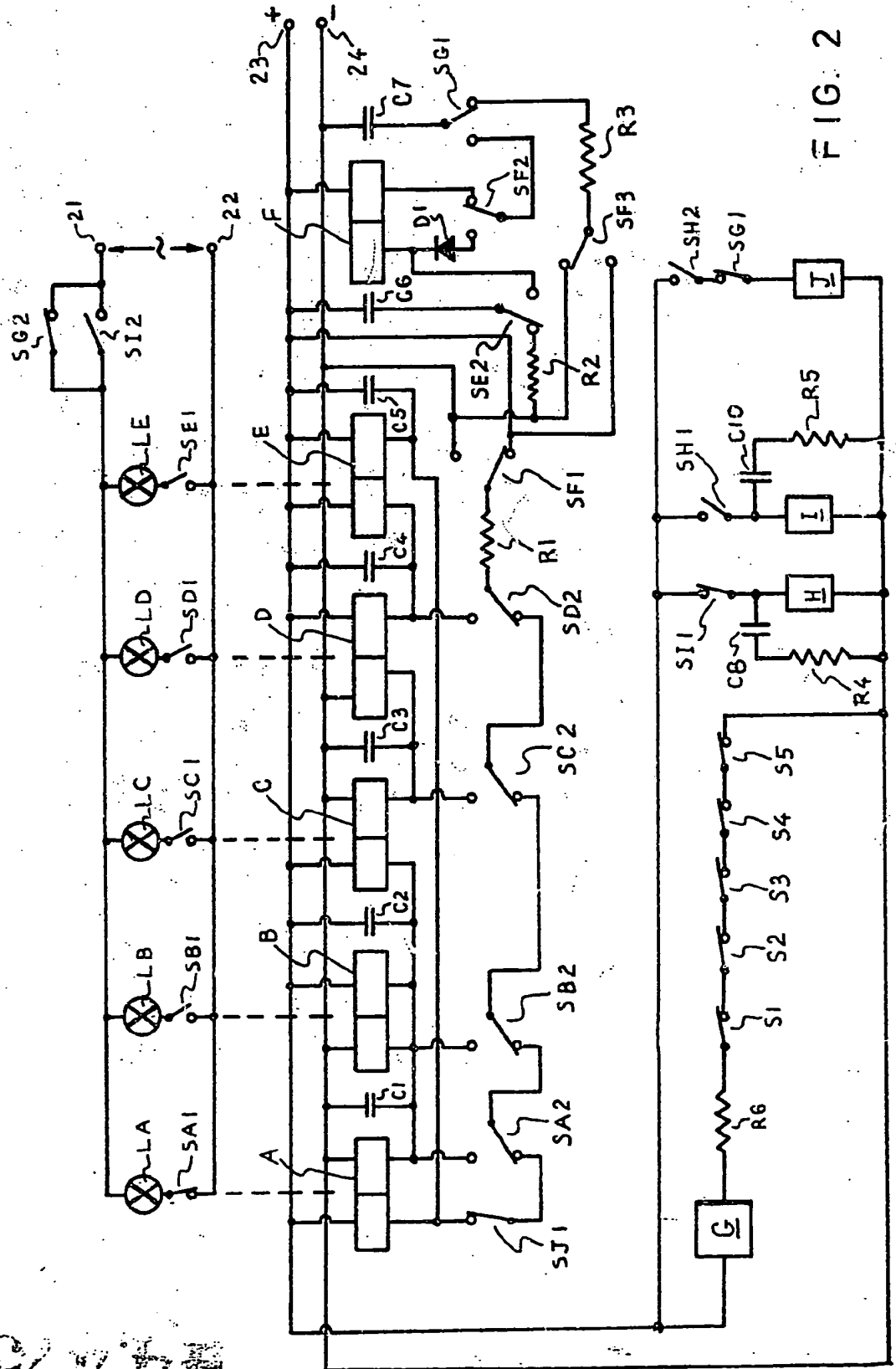
Fig. 1





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FIG. 2



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